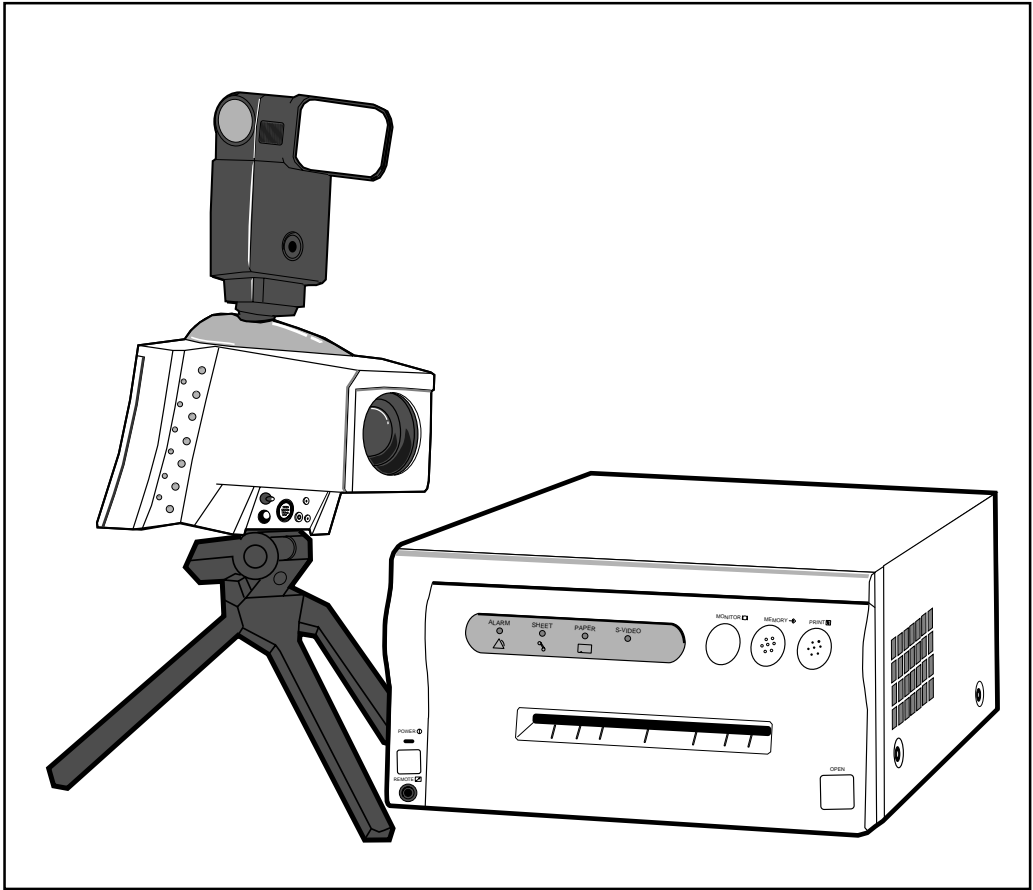




ID PHOTO SYSTEM
DIS710E

OPERATION MANUAL



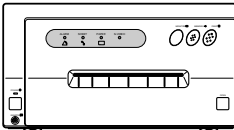
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CONTENTS

This system is composed by the following components.

Printer



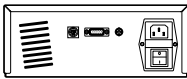
Printer

- AC cable
- Operation manual
- Ink cassette

System



Camera

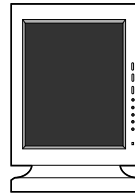


Connection box

- System cable
- Operation manual
- 3 guide sheets
- Print paper and ink sheet

Options

(not provided from Mitsubishi)



Monitor



Tripod



Strobe

This system complies with the requirements of the EC Directive 89/336/EEC "EMC Directive" as amended by Directive 93/68/EEC.

The electro-magnetic susceptibility has been chosen at a level that gains proper operation in residential areas, on business and light industrial premises and on small-scale enterprises, inside as well as outside of the buildings. All places of operation are characterised by their connection to the public low voltage power supply system.

1. SAFETY PRECAUTIONS

In the interest of safety, please observe the following precautions:

POWER REQUIREMENT

This system is designed for operation on 220V-240V, 50Hz AC. Never connect to any outlet or power supply having a different voltage or frequency.

WARNING: THIS APPARATUS MUST BE EARTHED.

AVERTISSEMENT: CET APPAREIL DOIT ETRE MIS A LA TERRE.

PROTECTIVE MEASURES

IF ABNORMAL OPERATIONS OCCUR,

Use of the unit during emission of smoke or abnormal sounds (without adopting countermeasures) is dangerous. In such a case, unplug the power cord from the source outlet immediately, and request maintenance service from the sales dealer.

NEVER INSERT ANY OBJECT INTO THE UNIT

Foreign objects of an kind inserted into this unit constitutes a safety hazard and can cause extensive damage.

DO NOT PLACE ANYTHING ON THE COLOUR VIDEO COPY PROCESSOR

Heavy objects placed on the Colour Video Copy Processor can cause damage or obstruct proper ventilation.

PROTECT THE POWER CORD

Damage to the power cord may cause fire or shock hazard. When unplugging, hold by the plug only and remove carefully.

DO NOT PLACE WATER CONTAINERS ON THE UNIT

Do not place flower vases, and other water-holding containers on the device. If, for some reason, water seeps to the inside of the unit, unplug the power cord from the source outlet, and contact the sales dealer. If used without corrective measures, the unit may be damaged.

"In the interest of safety, avoid handling of liquids near the unit."

DO NOT REMOVE THE CABINET

Touching internal parts is dangerous, and could lead to malfunction. Contact the sales dealer to carry out internal checks and adjustments. Before opening the cover for eliminating jammed paper, etc., be sure to disconnect the power cord plug.

UNPLUG THE POWER CORD DURING A LONG ABSENCE

Turn off the MAIN power switch and unplug the power cord during a long absence.

WHEN TRANSPORTING THE UNIT

When transporting the unit, remove the sheet cartridge and paper from the paper cassette, and insert the protective cushion into its compartment. Make sure to replace the printer's transit screw.

BE CAREFUL AROUND PRINT PAPER EXIT SLOT

Don't insert your hand or any material into the paper exit slot during printing.
Don't touch the cutter blade inside the paper exit slot.
Otherwise, your finger will be injured.

DO NOT TOUCH THE THERMAL HEAD

Do not touch the thermal head (located inside the unit).
The thermal head is heated to high temperature, and may cause injury.

BE CAREFUL WITH THE PRINTING UNIT

Don't move the unit while the printing unit is sliding out. This may cause injury.
Be careful not to catch your finger in the printing unit while the printing unit is being retracted into the unit.

CONNECTION CABLES

Use the cables provided

INSTALLATION LOCATIONS

MAINTAIN GOOD VENTILATION

Ventilation slots and holes are provided on the top, sides and bottom of this unit. Place the unit on a hard and level surface and locate at least 10 cm from walls to insure proper ventilation. When putting the unit on the system rack, take a space between the unit and the back of the rack.

UNSUITABLE LOCATIONS

Avoid shaky places or hot-springs areas where hydrogen sulfide and acidic ions are likely to be generated.

PLACES WITH HIGH HUMIDITY AND DUST

Do not place the unit in locations with high humidity and dust, which can cause extensive damage. Avoid places where unit is likely to be exposed to oily fumes and vapours.

PLACES LIKELY TO BE EXTREMELY HOT

Places exposed to direct sunlight, or near heating appliances can attain extremely high temperatures, which may deform the cabinet, or can become a prime cause of damage.

PLACE THE UNIT ON A HORIZONTAL LEVEL

The unit is likely to be affected if it is placed in slanted conditions or in unstable places.

PROTECT AGAINST DEW FORMATION

In extremely cold regions, if the unit is moved quickly from an extremely cold place to warmer one, dew is likely to be formed.

If dew is formed, printing is not possible.

OPERATING AMBIENT TEMPERATURE RANGE

The operating ambient temperature range is 5°C- 40°C, and humidity of 20-80%. When using the unit on the system rack, be sure to keep this ambient temperature inside the rack.

FOR LONG OPERATING LIFE

UNSUITABLE MATERIALS FOR THE COLOUR VIDEO COPY PROCESSOR

Coat flaking and deformation are likely to occur if the unit is wiped with chemical dusters, benzene, thinner or any other solvent, if rubber or PVC items are left in contact with the unit for extended duration, or if the unit is sprayed with insecticide.

CARE OF THE CABINET

Unplug and clean with a soft cloth slightly moistened with a mild soap and water solution. Allow to dry completely before operating. Never use petroleum base solutions or abrasive cleaners.

HEAD ABRASION

The thermal head, like the video head, wears out. When it is abraded, it becomes hard to print out fine details of the picture. In such a case, it is necessary to replace the thermal head. Consult with the sales dealer for replacing the head.

CAUTION ON RELOCATING

When transporting this unit, make sure it is not likely to be subjected to impacts. They can be a prime cause for damage. Further, make sure to disconnect the power cord from the power outlet, and the cables from the connected devices.

CONNECTING DEVICES

Read thoroughly "Operating Precautions" of the instruction booklets for the devices connected with the Colour Video Copy Processor.

The power cord must be disconnected after printing is over.

OTHER CAUTIONS

Dust or other foreign matter adhering to the print paper or the sheet cartridge, or deformation resulting from exposure to extremely low or high temperatures could cause loss of colour, uneven colour or lines, or wrinkles in the print images.

NOTE:

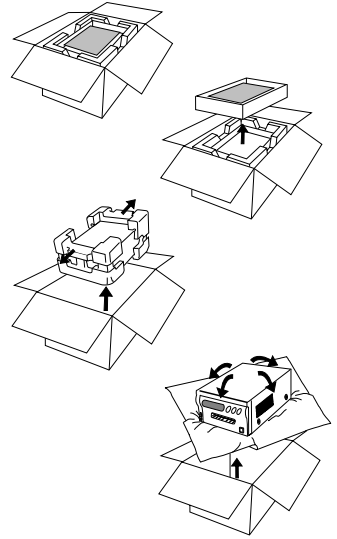
YOUR UNDERSTANDING IS REQUESTED FOR THE LOSS OF IMAGES IN MEMORY DUE TO THE SUDDEN OCCURRENCE OF A MALFUNCTION.

2. UNPACKING

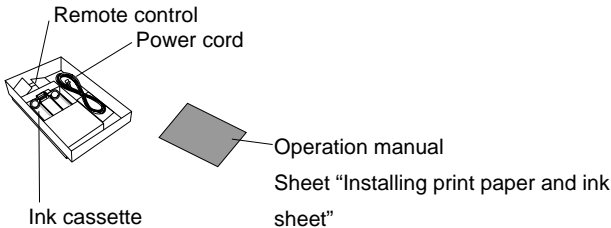
Take the unit out of the box by the following procedures. Make sure to check the contents.

■ PRINTER

- 1 Open the top of the box.
- 2 Remove the accessory box.
- 3 Remove the cushion above the unit.
- 4 Take the unit out of the box carefully.
Make sure to keep the unit horizontal.
Then, unwrap the packing.

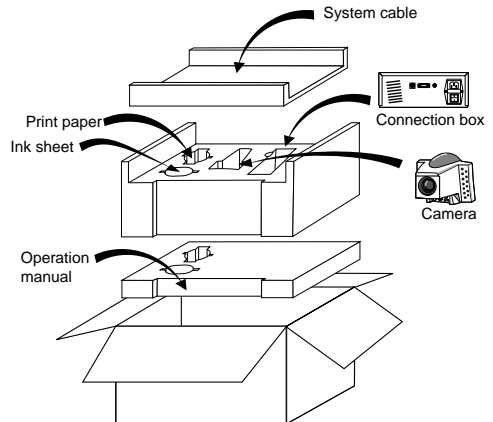


• Accessory box



■ CAMERA, ETC.

- 1 Open the top of the box.
- 2 Take out the system cable.
- 3 Remove the top cushion.
- 4 Take the connection box, camera, print paper, ink sheet and operation manual out of the box carefully.



3. PRINTER SETUP

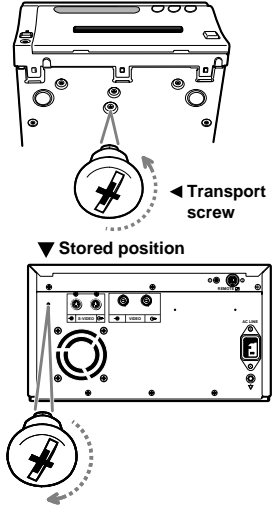
Before printing a photo, install a print paper and ink cassette.

REMOVING SCREW AND CUSHION

See CP710E operation manual for details.

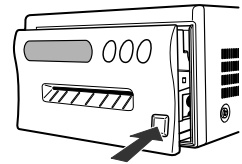
REMOVING SCREW

- 1 Remove the screw at the bottom of printing unit with a screwdriver or coin.
- 2 Set the removed screw to the hole on the rear panel to keep. If you attach the connection box, refer to page 11.



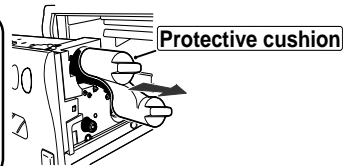
REMOVING PROTECTIVE CUSHION

- 1 Press the OPEN button on the front panel. Printing unit advances to the front.
- 2 Pull out the protective cushion from the right side.



NOTE

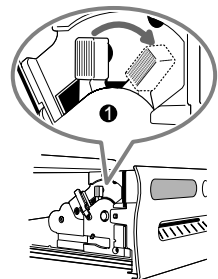
- Keep the protective cushion for transporting this unit.
- It is very important to transport this printer with the protective cushion installed so as not to damage the printing unit.



INSTALLING PRINT PAPER AND INK SHEET

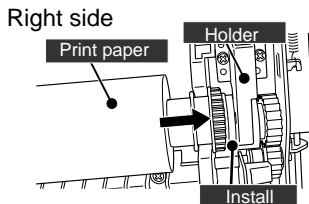
INSTALLATION PROCEDURE OF PRINT PAPER

- 1 Move the knob on the printing unit to the direction indicated by the arrow.



2 Insert the print paper in the position as shown right.

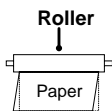
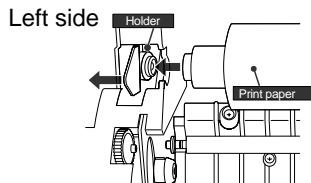
Place the gear to the right side.
Set the paper roll first on the right side paper holder.
Then, set the paper roll on the left side paper holder.



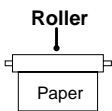
3 Insert the print paper between roller 1 and 2.

4 Insert the edge of the print paper to roller 3.

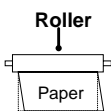
Be sure to insert the paper straight.



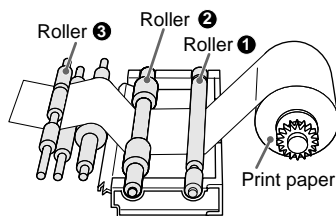
INCORRECT



CORRECT



INCORRECT

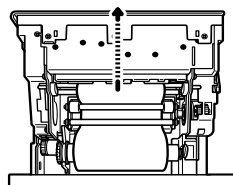


5 Feed the print paper through the exit slot straight with your hand.

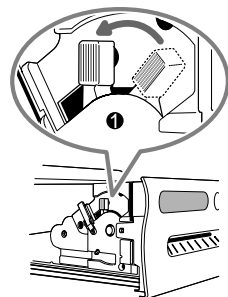
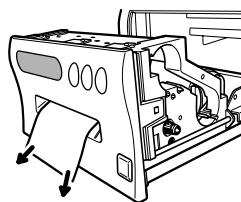
6 Pull the print paper to eliminate slack.

NOTE

If too much paper is fed, an error may occur. ("PAPER JAM12" is indicated on the monitor screen.) In this case, press the MEMORY button while holding the MONITOR button for a second.



7 Move the knob on the side of the printing unit to the direction as indicated by the arrow.



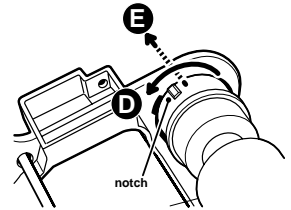
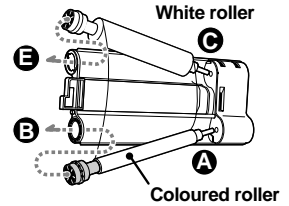
■ INSTALLING THE INK SHEET

Install the ink cassette with the ink sheet rolls before inserting the ink cassette into the printer.

- 1 Put the coloured roller of the ink sheet to the ink cassette. ①
②
- 2 Put the thin stick of white roller to the ink cassette. ③
- 3 Put the thick stick of white roller to the ink cassette. ④⑤

On the ④ position, turn the roller and set the notch of the roller side to the hole of the cassette.

The roller can be installed when notch is put through the hole.

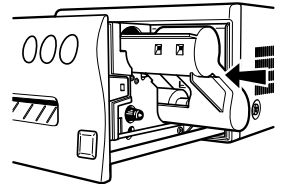
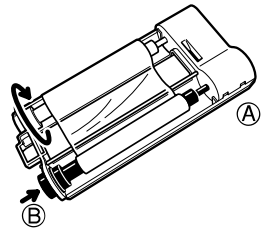


■ INSTALLING THE INK CASSETE

- 1 Eliminate any slack of the ink sheet.
Hold the roller ① and ② and turn the white roller.
- 2 Insert the ink cassette with the ink sheet into its compartment.

Insert the ink cassette with the knob side toward you until it is locked into place.

- When taking the ink cassette out of the compartment, press the ink cassette locking holder to release the lock.



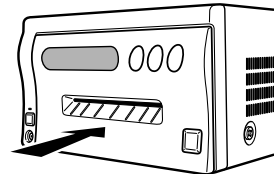
■ SET THE PRINTING UNIT

- 1 Push the printing unit until it is locked into place.
- 2 After plugging the power cord, press POWER button on the front panel.
- 3 Press the MEMORY button for about 1 second while holding the MONITOR button on the front panel.

- The print paper is automatically cut after sending by about 10cm.

- 4 Repeat 3 step.

(Fingerprints and dust can be removed by feeding the print paper. The printing unit is initialized.)



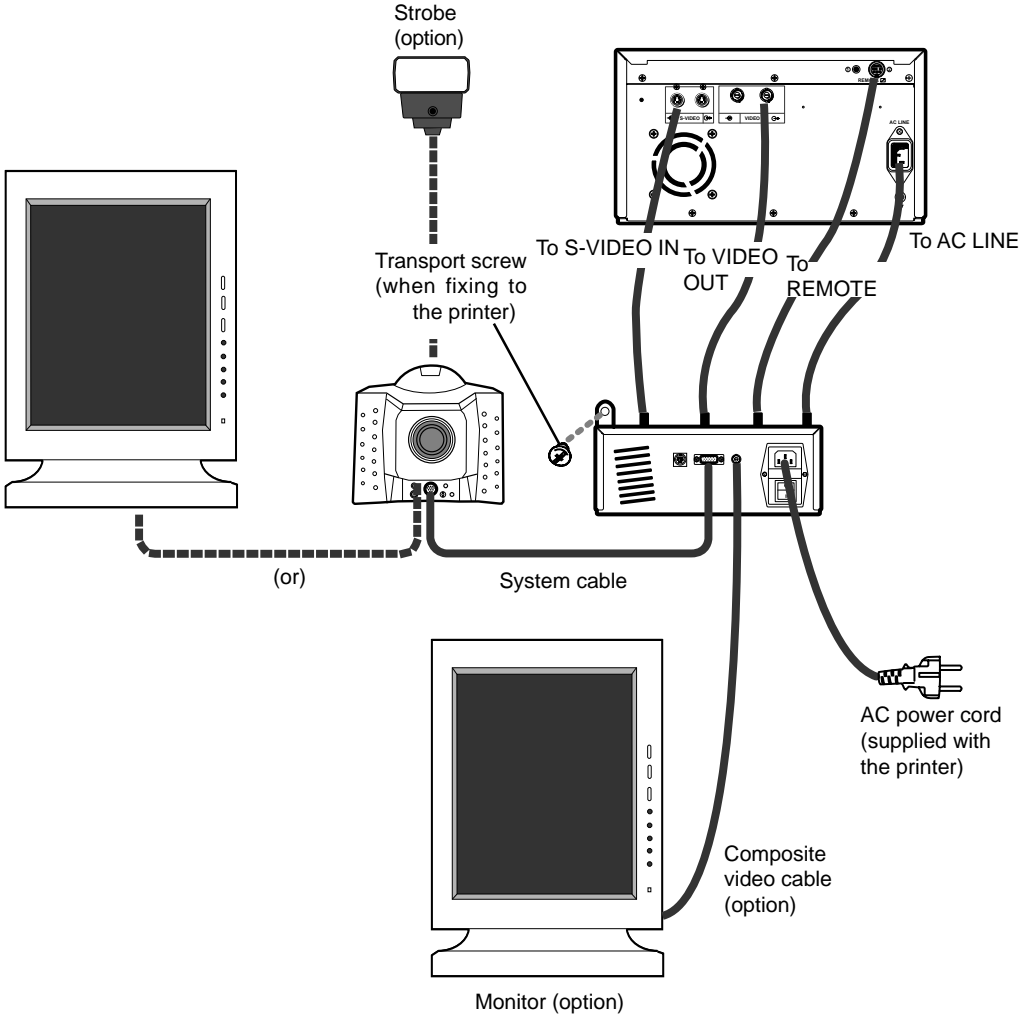
4. CONNECTION

CABLE CONNECTION

Connect the components as follows.(example)

Make sure to turn off each device when connecting.

If you wish to fix the connection box to the printer, set them first before connecting with cables.

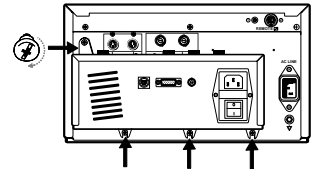
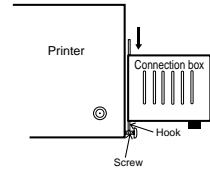
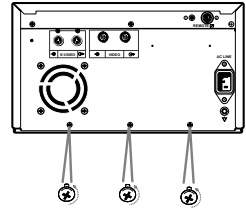


SET UP CONNECTION BOX

There are two ways to set connection box.

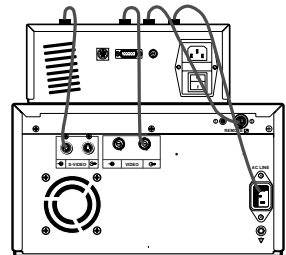
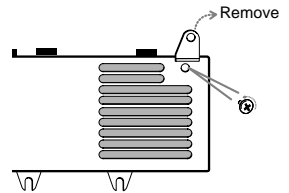
■ FIXING TO THE PRINTER

- 1 Loosen three screws** on the back of the printer.
- 2 Catch the hooks of the connection box on each screws** on the printer.
- 3 Fix the three screws and the transport screw.**



■ PUTTING ON THE PRINTER

- 1 Remove the hook.**
Take the hook out of the connection box by removing the screw.
- 2 Put the connection box on the printer.**
Refer to page 10 to connect with cables.

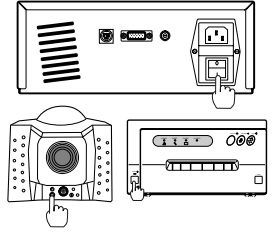


5. TAKING THE FIRST PICTURE

You can take a picture twice, and choose the better one.

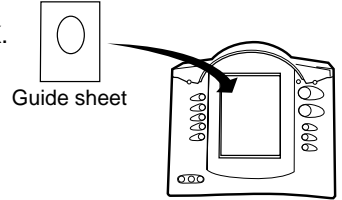
1 Turn on the power of this system.

Make sure to turn on the power of the connection box first.
Then, turn on the power of the camera and the printer.



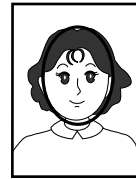
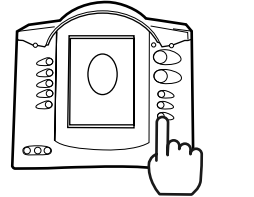
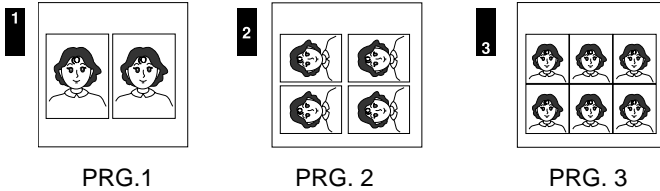
2 Attach a guide sheet with a circle on the LCD.

Guide sheet A : for use in France, Germany, Italy, Spain, U.K.
(face size : about 23mm)
Guide sheet B : for use in Belgium, Netherlands
(face size : about 30mm)
Guide sheet C : blank sheet



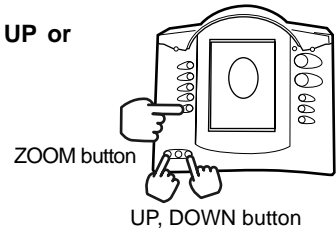
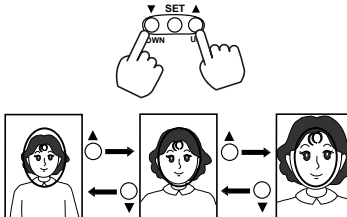
3 Select the type of mutiple picture (2, 4 or 6) by 1/2/3 button on the camera.

The PRG. No. is switched every time you press the button.
PRG.1 2-image (45x60mm) (Use solid line.)
PRG.2 4-image (35x45mm) (Use solid line.)
PRG.3 6-image (30x35mm) (Use dotted line.)



4 Set the face in the circle on the LCD.

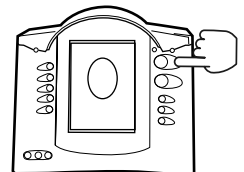
5 After pressing ZOOM button, adjust the size with UP or DOWN button to fit the face in the circle.



6 Wait for about 3 seconds until auto focus function is completed.

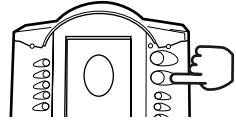
7 Press SHOT button to take a picture.

The first image is memorized in the camera.

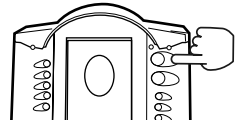


8 Press MEM button to transfer the image to the printer.

The image is memorized in the printer.



9 Press SHOT button to display the source image.

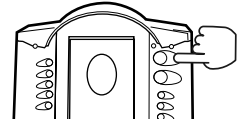


10 Press SHOT button again.

The second image is memorized in the camera.



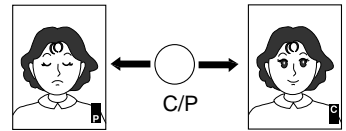
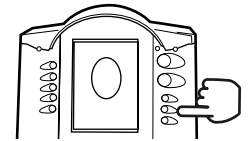
2nd image



11 Select the image to be printed.

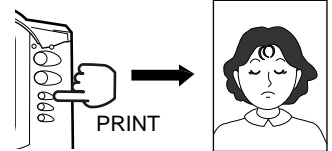
Press C/P button to switch between the two images.

“C”(image in the camera) or “P”(image in the printer) is shown on the LCD.



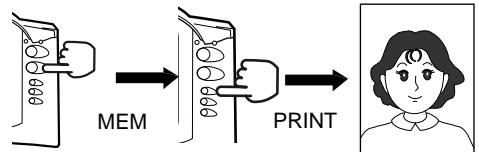
12 Print the image.

When printing the first image (with “P” mark, an image memorized in the printer), press PRINT button.



Printed image

When printing the second image (with “C” mark, an image memorized in the camera), press MEM button first, then, press PRINT button.



Printed image

When printing only one image (not multiple picture), skip the step

7.

Refer to page 14 to get maximum quality of your pictures.

6. PICTURE QUALITY ADJUSTMENT

ADJUSTING PICTURE QUALITY

To adjust the image source first is the key to get maximum picture quality.

CAMERA ADJUSTMENT

Always adjust the camera setting first. Only after you are sure that the camera is providing the best picture quality and colour balance, adjust the printer setting.

Make sure to adjust the camera setting in the same condition which you actually take a picture.

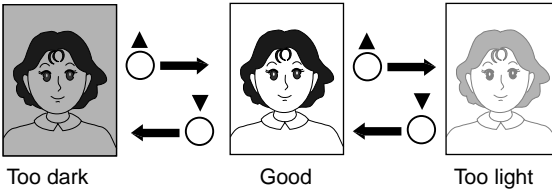
For Iris setting, see the table shown right.

Relation Distance for taking picture, Guide No., F number

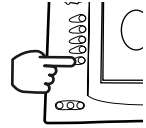
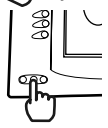
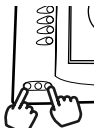
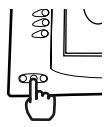
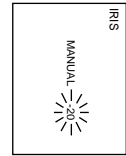
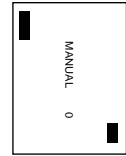
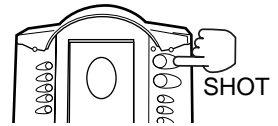
Guide No.	Distance (m)							
	1		1.5		2		2.5	
	F	IRIS	F	IRIS	F	IRIS	F	IRIS
12			8	-17				
14							5.6	13
16	16	-24	11	-20	8	-17		
18								
20							8	-17
22	22	-28			11	-20		
24			16	-24				
26								
28							11	-20
30								
32	32	-30	22	-28	16	-24		
34								
36								
38								
40							16	-24
42								
44					22	-28		
46								
48			32	-30				
50								
52								
54							22	-28
56								

ADJUSTING THE BRIGHTNESS OF IMAGE (IRIS)

- 1 Press **SHOT** button to take a picture.
- 2 Press **IRIS** button.
IRIS adjustment mode is selected.
- 3 Press **UP** or **DOWN** button to select **MANUAL**.
- 4 Press **SET** button.
The set value is flashing. Change the set value with **UP** or **DOWN** button.
If the image is too dark, set the larger value.
If the image is too light, set the smaller value.



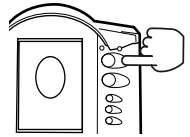
- 5 Press **SET** button.
- 6 Press **ZOOM** button to finish the iris setting menu.



7 Press SHOT button to take a picture.

Check the brightness of image.

If the brightness is not improved, repeat the steps 2 to 6 to get the best setting.



ADJUSTING THE COLOUR OF IMAGE (WHITE BALANCE)

Default setting is flash light W.B. If you are not satisfied with this setting, please proceed as follows.

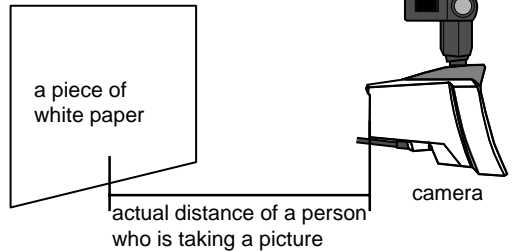
1 Place a piece of white paper in front of the camera and display it to cover the LCD.

Place white paper at the actual position where the subject would normally sit.

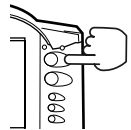
NOTE

Do not display the picture with non-white objects when adjusting white balance.

Adjust white balance under sufficient light.

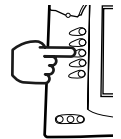
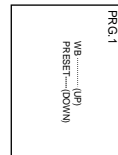


2 Press SHOT button with flashing a strobe light to take a picture.

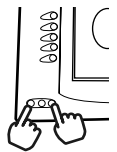
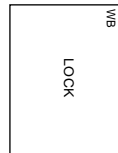


3 Press WB button.

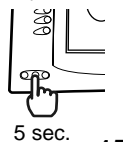
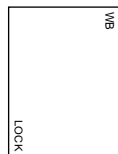
White balance adjustment mode is selected.



4 Press UP or DOWN button to select LOCK.

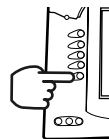


5 Press SET button for about 5 seconds until white balance is locked.



5 sec.

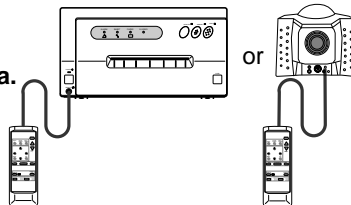
- 6 Press ZOOM button to finish the white balance setting menu.



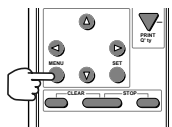
FINE-ADJUSTING OF COLOUR

When more colour adjustment is necessary after adjusting white balance, use a remote control of the printer.

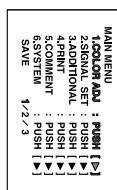
- 1 Connect the remote control to the printer or the camera.
If the printer is not turned on, turn on the power.



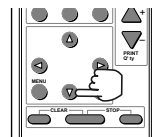
- 2 Press MENU button.
Main menu is displayed on the monitor.



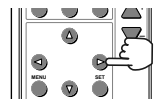
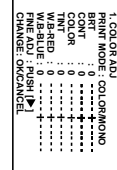
- 3 Press ▼ button to select 1.COLOUR ADJ.



- 4 Press ► button to open COLOUR ADJ menu.



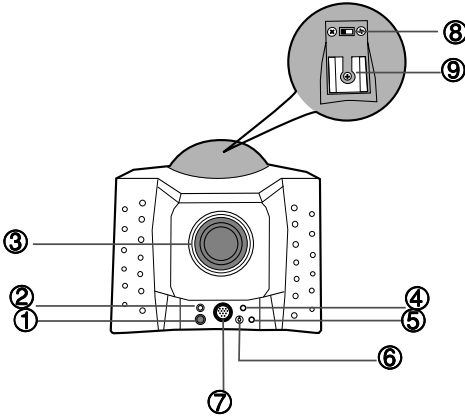
- 5 Change the value of each item to get the better colour.



- BRT Adjusts brightness of the printing image.
- CONT Adjusts contrast of the printing image.
- COLOR Adjusts density of the printing image. The colour of the image gets deeper with ► and lighter with ◀.
- W.B-RED Adjusts redness of white colour.
- : Adds red
◀ : Adds green
- W.B-BLUE Adjusts blueness of white colour.
- : Adds blue
◀ : Adds yellow

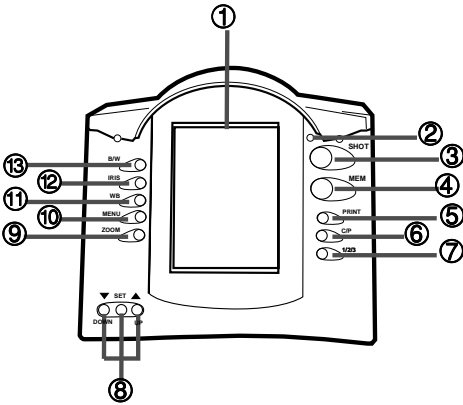
7. FEATURES AND FUNCTIONS

CAMERA (FRONT)



- ① **POWER BUTTON (CAMERA ONLY)**
Press to turn on power. Press again to turn off power. This button is only for the camera. Make sure to turn on the connection box at this time.
- ② **VIDEO-OUT TERMINAL**
- ③ **LENS**
- ④ **REMOTE CONTROL TERMINAL**
- ⑤ **EXTERNAL SHOT TERMINAL**
- ⑥ **EXTERNAL STROBE TERMINAL**
- ⑦ **SYSTEM CABLE TERMINAL**
- ⑧ **LOCK SWITCH**
To lock all functions of camera setting except ZOOM.
- ⑨ **STROBE SOCKET**

CAMERA (REAR)



- ① **LCD**
Displays a source image, image memorized in a camera, and program number.
- ② **POWER INDICATOR**
- ③ **SHOT BUTTON**
Press to take a picture.
- ④ **MEM BUTTON**
Press to memorize an image into the printer.
- ⑤ **PRINT BUTTON**
Press to print an image in the printer.
- ⑥ **C/P BUTTON (MONITOR)**
Press to switch two images on LCD. One is memorized in camera, and the other is memorized in printer. The selected image is displayed on the bottom-right of the LCD as C (image in camera) or P (image in printer).
- ⑦ **1/2/3 BUTTON (PROGRAM)**
Press to select the picture type. The selected program number is displayed on the upper-right on the LCD. See page 12 for the details.

⑧ UP BUTTON, SET BUTTON, DOWN BUTTON

On ZOOM mode:

Use to adjust zoom. Press UP to zoom up (TELE) and DOWN to zoom back (WIDE).

On IRIS mode:

Use to switch iris between auto and manual. Use also to set value at manual adjustment.

On WB/PR mode:

Use to switch white balance between auto and manual.

On MENU mode:

Use to select and set items on the menu screen.

⑨ ZOOM BUTTON

Press to zoom or switch focus between auto and manual.

⑩ MENU BUTTON

Press to display menu.

⑪ WB BUTTON

Press to adjust white balance (W/B) and select a preset number.

⑫ IRIS BUTTON

Press to switch iris (AUTO/MANUAL) or to make manual adjustment.

⑬ B/W BUTTON

Press to switch the image to be printed between monochrome (B/W) and colour.

8. ADVANCED SETTING

CHANGING SETTINGS

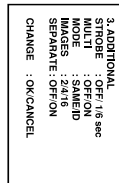
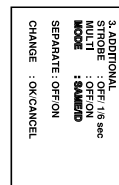
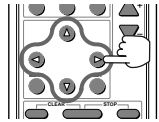
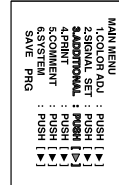
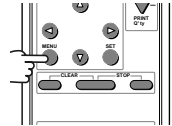
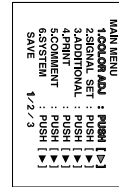
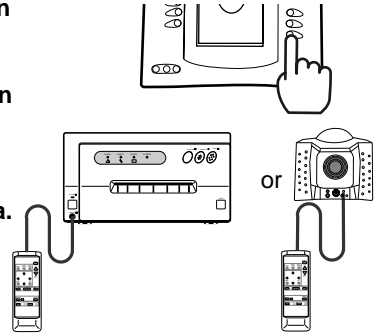
You can print 1, 2, 4, 6 and 16-image on a sheet. To make 1 and 16-image print, change the setting as follows.

■ PRINTING 16- OR ONE-IMAGE ON A SHEET

Use the remote control of the printer to print 16-image on a sheet.

- 1 Select the PRG. No. to be changed with the switch on the camera.
- 2 Connect the remote control to the printer or the camera.
- 3 Press **MENU** button.
MAIN MENU is displayed on a monitor.
- 4 Press **▲** or **▼** button to select 3.ADDITIONAL menu.
- 5 Press **▶** button.
- 6 Press **▲** or **▼** button to select **MODE : SAME/ID.**
- 7 Press **▶** or **◀** button to select **MODE : SAME.**
IMAGES : 2/4/16 is displayed under the MODE menu.
- 8 Select 16 with **▶** or **◀** button.
- 9 Press **SET** button until the normal screen is displayed.

When printing 1-image, select **MULTI : OFF** on 3.ADDITIONAL menu.



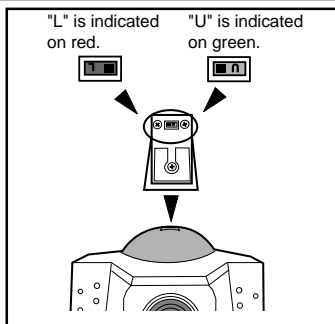
LOCK FUNCTION

To avoid changing the setting of the camera, locking the camera setting is recommended.

When locked, the switch is on the right side and "L" is shown on red.

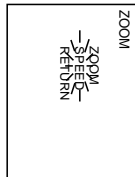
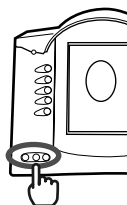
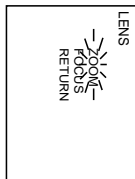
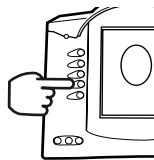
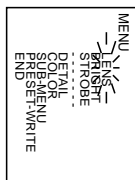
When unlocked, the switch is on the left side and "U" is shown on green.

Please see the figure on the right.



CHANGING ZOOMING SPEED

- 1 Press MENU button on the camera.
- 2 Press UP or DOWN button to select LENS, then press SET button.
- 3 Press UP or DOWN button to select ZOOM, then press SET button.
- 4 Press UP or DOWN button to select SPEED, then press SET button.
- 5 Press UP or DOWN button to select zooming speed among SLOW, MEDIUM, FAST and VERY FAST.



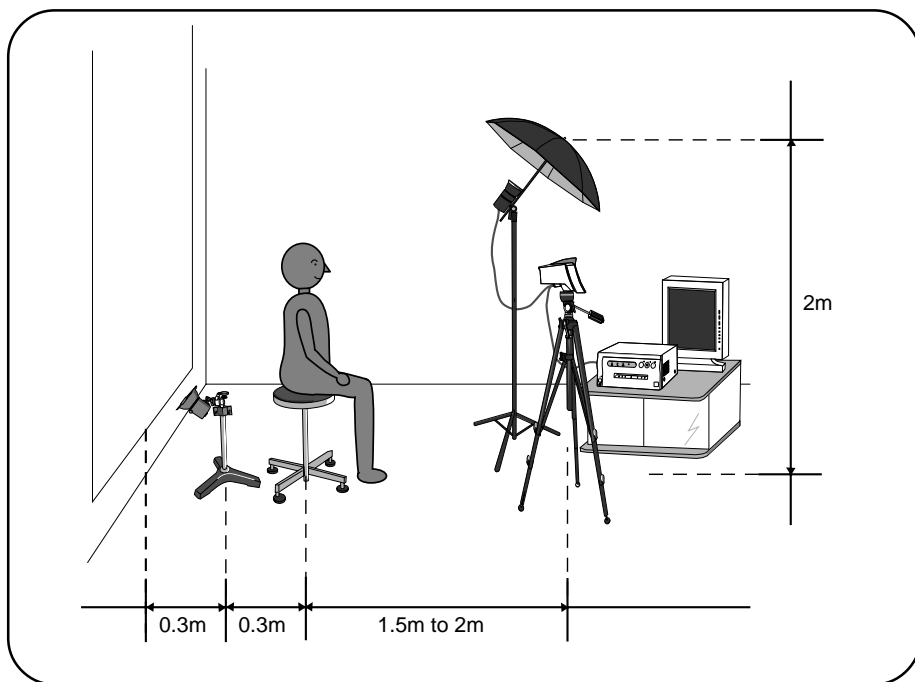
SELECTING AUTO/MANUAL FOCUS

- 1 Press MENU button on the camera.
- 2 Press UP or DOWN button to select LENS, then press SET button.
- 3 Press UP or DOWN button to select FOCUS, then press SET button.
- 4 Press UP or DOWN button to select AUTO or MANUAL, then press SET button.

When selecting MANUAL, press UP or DOWN button to select the focus, then press SET button.

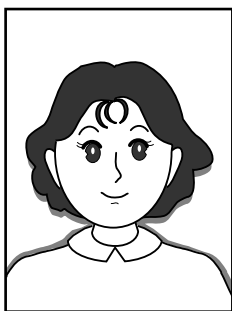
Normally, use MANUAL mode for focus setting.

THE BEST CONDITION FOR THIS SYSTEM

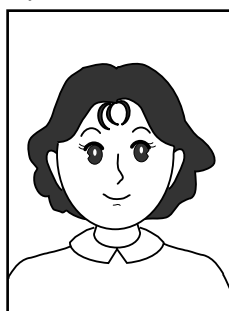


■ EFFECT OF BACK FLASH

- The back flash reduces the shadow behind the subject.



Without back flash



With back flash

9. TROUBLESHOOTING

BEFORE CALLING FOR SERVICE

Use the following troubleshooting chart to resolve any apparent defect in operation. If you are unable to resolve the problem, unplug the power cord and contact your dealer.

Causes	Countermeasures
No power	<ul style="list-style-type: none">• Is the power cord plug disconnected from the outlet? Connect the power cord plug to the outlet firmly.• Are the camera, printer and connection box turned on? Confirm that they are turned on.
No signal	<ul style="list-style-type: none">• Is the cable connected correctly? Check each connection.
Image is not printed.	<ul style="list-style-type: none">• Is the image data sent to the printer? Confirm that the image data is sent to the printer.• Is the print paper or ink sheet used up? Check the status.• Is the printing unit of the printer set correctly? Set the printing unit correctly.
The camera setting does not work.	<ul style="list-style-type: none">• Is the lock switch of the camera is set to OFF? Check the lock switch is set to OFF.
The captured image is not focused.	<ul style="list-style-type: none">• Is the focus mode set to "FOCUS LOCK"? If the mode is set to "AUTO FOCUS", change to "FOCUS LOCK".
Mechanical initialization	

■ THE RATIO OF FACE SIZES

The following chart shows the ratio of the face sizes between print image and LCD.

Type of multiple picture	Printer / LCD
1	1 : 0.87
2	1 : 1.33
4	1 : 1.77
6	1 : 1.35
16	1 : 3.50

For example, if you wish to take the face size (on printed image) as 25mm, you would calculate the face size based on the above chart.

E.g. For 4-split, the ratio of printer and LCD is 1:1.77.
25mm (print size) x 1.77 (ratio) = about 44mm (on LCD)
So, you can mark a new circle on guide C.

See page 12 for guide sheet.

10. SPECIFICATIONS

Camera

Image pickup device	1/4" CCD (total 470,000 pixels)
No. of effective pixels	752H x 582V (440,000 pixels)
Signal system	PAL colour system
Scanning system	625 lines; 2:1 interlace
Scanning frequency	15.625 kHz (H), 50 Hz (V)
Sync. system	Internal
Video output	PAL composite
Horizontal resolution	430 TV lines (S-video output)
S/N ratio	More than 46dB
Gain control	AUTO / MANUAL
White balance	AUTO / INDOOR/ FL LIGHT / OUTDOOR / LOCK / MANUAL
Color adjustment	R-GAIN / B-GAIN / R-HUE / B-HUE
Electronic SHOT	1/50
Closest distance	1cm (widest angle) 1m (telephoto end)
Lens	Electrically powered 14-power zoom lens F1.4, f = 3.9 - 54.6mm Zoom speed 2 / 3 / 6 / 10 sec. Focus AUTO / LOCK / MANUAL Iris AUTO/MANUAL
Temperature	Operating 0°C to 40°C Safekeeping -20°C to +60°C
Current consumption	DC12V 900mA (camera+LCD+video amp+PCB's)
External dimensions	165mm(W) x 147mm(H) x 205mm(D) (excluding external connectors)
Weight	Approx. 1kg
LCD	4 inch
Accessories	Operation Manual Guide sheet (3) Print paper Ink sheet

Printer

Printing method	Sublimation Dye thermal 3 colour faces progressive printing (yellow, magenta and cyan)
Print quality	Dot resolution max. 1200x600 dots Number of grades 256 for each color
Printing time	Approx. 40sec./sheet (S size one image print)
Ink sheet	Special cartridge method
Print paper	Special roll paper L size 162x110mm Printing area Wide mode 130x96mm Middle mode 122x93mm Narrow mode 118x89mm Special roll paper S size 110x107mm Printing area Wide mode 100x73mm Middle mode 94x71mm Narrow mode 91x68mm
Supply method	Automatic
Input terminal	Composite video (1 BNC type connector) S-VIDEO (1 S-VIDEO terminal)
Output terminal	Composite video (1 BNC type connector) S-VIDEO (1 S-VIDEO terminal)
Input/Output terminal	Remote terminal 1 (stereo mini jack) Remote terminal 2 (Mini DIN 8 pin)
Input frequency	H frequency 15.625kHz V frequency 50Hz
Power supply	AC 220-240V, 50Hz
Power consumption	1.0A during printing
Installation conditions	Temperature 5°C to 40°C Humidity 20 to 80% (no dewing)
Operation altitude	Horizontal ± 5°
External dimensions	280mm(W)x150mm(H)x398mm(D)
Weight	14.5kg
Accessories	Operation Manual Remote control Ink-cassette Power cord Spacer (4) Additional sheet "Installing print paper and ink sheet"

Connection box

Output terminal	Composite video PAL
RS-232C	Mini DIN (camera control)
Power supply	AC 220-240V, 50Hz
Power consumption	0.6A (Inrush current 1.2A)
Installation conditions	Temperature 5°C to 40°C
External dimensions	214mm(W) x 85mm(H) x 110mm(D) (excluding external connectors)
Weight	Approx. 1.5kg
Accessories	System cable

- Specifications are subject to change without notice.

Name of Importers

Mitsubishi Electric Europe B.V.

Benelux Branch

Nijverheidsweg 23 A, 3641 RP. Postbus 222, 3640 AE Mijdrecht

Phone 02972-82461

FAX 02972-83936

French Branch

25, Boulevard des Bouvets - 92741 NANTERRE cedex

Phone (01) 55.68.55.00

FAX (01) 55.68.57.31

German Branch

Gothaer Strasse 8, Postfach 1548, 40880 Ratingen 1, Germany

Phone (02102) 4860

FAX (02102) 486-732

Irish Branch

Westgate Business Park, Ballymount, Dublin 22, Ireland

Phone (1) 4505007

FAX (1) 4561337

Italian Branch

Centro Direzionale Colleoni, Palazzo Perseo-Ingresso 2,

Via Paracelso 12, 20041 Agrate Brianza, (Milano) Italy

Phone (039) 60531

FAX (039) 6057694

Scandinavian Branch

Hammarbacken 14, Box 750 S-19127, Sollentuna, Sweden

Phone (8) 625-1000

FAX (8) 966877

Spanish Branch (Barcelona)

Sucursal en España

Polígono Industrial "Can Magí", Calle Joan Bucallà 2-4,

Apartado de Correos 420, 08190 Sant Cugat del Vallés,

Barcelona, Spain

Phone 93.5653154

FAX 93.5894388

UK Branch

Travellers Lane, Hatfield, Herts. AL10 8XB, England, U.K.

Phone (1) 707 276100

FAX (1) 707 278755

 **MITSUBISHI ELECTRIC CORPORATION**